

CITY OF BEVERLY
RULES AND REGULATIONS - WATER SYSTEM

- A **PERMIT FEE of \$100.00** payable to the City of Beverly is required to obtain a water permit.
- **NO WATER PERMITS** will be issued to persons who ARE NOT licensed excavators in the City of Beverly.
- **NO WATER PERMITS** will be issued to any contractor or excavator who has any outstanding inspections, as-built drawings, or for any reason in the best interests of the City of Beverly as determined by the City Engineer or his agent.

I. MAINS

- **WATER MAIN CONSTRUCTION** must be Class 52 cement lined ductile iron pipe with metal wedges placed in joints for continuity.
- **WATER MAIN CONSTRUCTION** shall be professionally pressure tested and chlorinated and a test report submitted to the Engineering Department before the main can be put in service. Test reports shall include pressure test and bacterial test.

II. DOMESTIC SERVICES

- **DOMESTIC WATER SERVICES** from 1" to 2" must be entirely Type "K" copper. 4" and larger shall be Class 52 CLDI.
- **ALL ABANDONED OR DISCONTINUED SERVICES** shall be shut off and capped at the main at the expense of the owner.
- **THE CITY OF BEVERLY WATER DEPARTMENT** will make all taps up to and including two inches (2") into water mains or ream the existing corporation. The Contractor shall provide a trench excavated to a width of at least four feet (4') to allow the tap to be made. The fee is **\$250.00** per tap.

III. WATER METERS

- **METER PITS**, if allowed, shall have a minimum opening of twenty-four inches (24") and shall have steps for every one foot (1') of vertical height. Meters shall be placed to be visible from the center of the opening. Covers shall be medium duty. Pit must be a minimum of 3 feet inside diameter.
- **NEW WATER METERS** must be purchased from the City of Beverly Engineering Department.

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- **FOR METERS** over one and inch (1"), see the Water Department or Director of Public Services.
- **THE WATER DEPARTMENT** must inspect the meter, as part of the final inspection.

IV. LEAD FREE BRASS VALVES AND FITTINGS

- **FITTINGS MUST BE** Mueller, Cambridge, Redhed, Ford, MacDonald or Hays brand with compression ends. All corporations, curbcocks and stop and wastes, must open right.
- **ALL VALVES** (main line) shall open to the right. Main valves shall be resilient seat gate valves with stainless hardware, meet AWWA class c515 standards, have a single lead thread and a two inch operating nut. No butterfly valves allowed without permission from the Water or Engineering department.
- **ALL MAIN-GATE VALVE BOXES** shall meet American Water Works Association Standards with an inside diameter of six inches (6").
- **ALL SERVICE BOXES SHALL** meet American Water Works Association Standards with an inside diameter of two inches (2").

V. FIRE SUPPLY

- **NEW OR MODIFIED FIRE OR SPRINKLER SERVICES** are to be separate from domestic services. They are to be professionally pressure tested and chlorinated and a test report submitted to the Engineering Department. Test reports shall include pressure test and bacterial test.
- **NEW OR MODIFIED FIRE OR SPRINKLER SERVICES** must have an approved backflow device licensed by the Massachusetts Department of Environmental Protection and Design Data Sheets must be submitted to the Water or Engineering Department.
- **NEW OR MODIFIED FIRE OR SPRINKLER SERVICES** are to be metered. The type and serial number is to be turned in to the Water Department office at City Hall with the initial reading if it is not zero.

VI. HYDRANTS

- **NEW HYDRANTS MUST** be American Flow Control, B62B as per current Water Dept specs, whether on public or private property.

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- **HYDRANTS ARE NOT** to be turned on without the permission of the Engineering Department and Water Department. Charges will depend on usage. A proper back-flow preventer must be used on all hydrants. Metering of hydrants is required and the minimum charge shall be twenty-five dollars (\$25.00) per month. User must notify the Fire Dept before each use and after each use. This regulation pertains to public and private hydrants.
- **MAINTENANCE OF PRIVATE HYDRANTS** is the responsibility of the hydrant/property owner. Only licensed drain-layers or professional contractors approved by the Water Department may perform hydrant maintenance and then, only with the City's permission.
- **HYDRANTS ARE NOT** to be turned on for watering lawns or filling swimming pools.

VII. WATER LINE TESTING PROCEDURES

- **PRESSURE TESTS:**
 - a. **PRIOR TO PRESSURE TESTING**, a flush of the main to be tested, will be conducted by the contractor. This will remove the high chlorine content, and help remove air trapped in the main.
 - b. **A PRESSURE TEST WILL BE CONDUCTED** by the contractor with a person from the Water Department present.
 - c. **THE WATER MAIN** should hold static pressure before calling Water Department to initiate Pressure Test.
 - d. **THE TEST PRESSURE** will be 150 psi. (for domestic lines) and 200 psi (for fire lines) or 1½ times the static pressure of the connecting waterline. Whichever is greater.
 - e. **ALL MAIN VALVES** and hydrant watch valves must be in the open position and will be included in the test.
 - f. **PRESSURE TEST WILL** be for two hours in duration.
 - g. **ALLOWABLE LEAKAGE:** ½ gallon per hour per diameter inch, per mile of pipe.
 - h. **PRESSURE DURING THE** test should not deviate by more than 5 psi and will not fall below the required test pressure.

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• **CHLORINATION AND BACTERIA TESTING:**

- a. **CHLORINATION AND BACTERIA TESTING** will be accomplished by a professional contractor approved by the Water Department.
- b. **CHLORINE AND BACTERIA TESTING** will be according to AWWA requirements.
- c. **FAILING BACTERIA TESTS** will require the following:
 - i. **FIRST FAILURE:** Flushing and re-test for bacteria.
 - ii. **SUBSEQUENT FAILURES:** Flushing, re-chlorinating the system, flushing the chlorine and re-test for bacteria.

VIII. CROSS CONNECTION

- **NO PERSON SHALL MAINTAIN** upon premises served by the City of Beverly's water system a cross-connection, unless it is maintained in compliance with the DEP Regulations as per 310 CMR 22.22.
- **BACKFLOW PREVENTION DEVICES SHALL BE APPROVED** by the City and/or their designated representative and shall be tested in accordance with DEP Regulations. The cost for testing of such devices by the City and/or their designated representative shall be the responsibility of the customer/property owner.
- **FAILURE BY THE CUSTOMER/OWNER** to pay for the cost of testing such devices for two or more billing quarters will result in the bill being added to your property tax as a lien on your property.
- **FOR FURTHER INFORMATION** please see the City of Beverly's Cross Connection Control Program Ordinance (Article XXXI.)

IX. GENERAL CONDITIONS

- **NO WATER OR STREET OPENING PERMITS** will be issued for new or increased water service until Water Demand Charge is paid.
- **ALL WATER CONSTRUCTION MUST BE INSPECTED** by the Water Department or the Engineering Department prior to backfill. Ample advance notice must be given for inspections by calling 978-921-6057 or 978-605-2355.

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- **ANY WORK BACKFILLED BEFORE INSPECTION** shall be uncovered if required by the Water or Engineering Department.
- **NO WATER WILL BE TURNED ON** until the service is metered and complete as-built drawings are returned to the Engineering Department.
- **OWNERS OF ILLEGALLY TURNED ON WATER SERVICES** will be charged for water at the rate of fifty dollars (\$50.00) per month retroactive to the date of the building permit.
- **ANY AND ALL ITEMS** not covered by these regulations will be resolved in the best interests of the City of Beverly.

